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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/722,375	11/25/2003	Eusebio Di Cola	856063.757	8588
38106 7590 05/25/2007 SEED INTELLECTUAL PROPERTY LAW GROUP PLLC 701 FIFTH AVENUE, SUITE 5400			EXAMINER	
			HOANG, JOHNNY H	
SEATTLE, WA 98104-7092		ART UNIT	PAPER NUMBER	
			3747	
			.	
			MAIL DATE	DELIVERY MODE
		•	05/25/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/722,375	DI COLA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Johnny H. Hoang	3747				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be ti	N. mely filed				
 If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). 	e, cause the application to become ABANDON!	ED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on <u>31 August 2005</u> .						
2a)⊠ This action is FINAL . 2b)☐ This	n)⊠ This action is FINAL . 2b)□ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-38</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdra	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6) Claim(s) <u>1-18,21,23-27,29,31,32 and 34-37</u> is/	are rejected.					
7) Claim(s) 19,20,22,28,30,33 and 38 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.						
						Application Papers
9) The specification is objected to by the Examine	er.					
10)⊠ The drawing(s) filed on <u>06 October 2005</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Ex	caminer. Note the attached Office	e Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)⊠ All b)☐ Some * c)☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list	of the certified copies not receive	ed.				
Attachment(s)	. –					
Notice of References Cited (PTO-892)	4) L Interview Summary Paper No(s)/Mail D					
Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal F 6) Other:					
Part 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	·, 🗀 · ·······					

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

2. Claims 1-18, 21, 23-27, 29, 31, 32, and 34-37 are rejected under 35 U.S.C. 102(e) as being anticipated by Ponti (US 6,494,086 B1).

Re claim 1, the reference of Ponti discloses an internal combustion reciprocating engine for motor vehicle including the following subject matters: the electronic control unit (32) which controls the injectors must know the stroke of each cylinder to control injection of fuel and to control ignition in the predefined instants of each operating stroke (col. 1, lines 11-15) and the architecture comprising:

a first module structured to process electric signals from which the angular position of the engine driving shaft can be obtained (Figs. 1-4; and col. 1, line 52 through col. 2, line 59);

a second module structured to process electric signals from which the cycle phase of the engine can be obtained (above discussions);

a third module structured to supply suitable signals for driving the injectors so as to

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actuate the desired injection profile stored inside the module (col. 1, line 52 through col. 2, line

5); and

a fourth module structured to enable the module and to receive signals from the first and

second modules and from the fourth module itself (above discussions and col. 2, line 60 through

col. 4, line 6).

Re claims 2-13, as discussed in claim 1.

Re claims 14-18, 21, 23-27, 29, 31-32, and 34-37, see the rejections of claims 1-13.

Response to Arguments

3. Applicant's arguments on pages 19-21, filed on August 31, 2005, with respect to the

rejection(s) of claim(s) have been fully considered and are not completely persuasive. Claims

1-38 are pending.

The recitation of "in the manner that injections during a same operating phase of the

engine are increased and are based at least in part on an angular position of the drive shaft" is

considered as the functional language. Ponti discloses all the structural components of an

ignition management system, which are read on those of the instant invention. Therefore, the

Ponti system is capable of performing the same desired functions/results as the instant

invention having been claimed in claim 1.

Allowable Subject Matter

4. Claims 19, 20, 22, 28, 30, 33, and 38 are objected to as being dependent upon a

rejected base claim, but would be allowable if rewritten in independent form including all of the

limitations of the base claim and any intervening claims.

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Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Johnny H. Hoang whose telephone number is (571) 272-4843.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen K. Cronin can be reached on (571) 272-4536. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JHH May 16, 2007

Johnny H. Hoang Examiner Art Unit 3747

Willis R. Wolfs
Primary Examiner

0.+ Unit 3747

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